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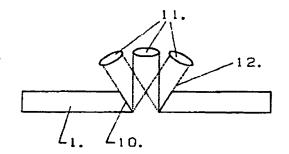
ATOBE MITSUAKI;

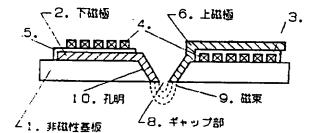
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TITLE

THIN FILM MAGNETIC HEAD





## ABSTRACT :

PURPOSE: To ensure the 100% application of the magnetic flux leaked out of the gap of a magnetic pole to the writing jobs to a magnetic recording medium by forming a hole at a position around the gap part of a nonmagnetic substrate and forming the gap part of the magnetic pole at the hole part.

CONSTITUTION: A hole is formed by the excimer laser 11 at a position corresponding to a gap part 8 of a nonmagnetic substrate 1. In this case the beam 12 of the laser 11 is moved left and right centering on the hole part of the substrate 1 in order to obtain a tapered hole 10 widening toward its upper side. Then a conductive form is formed on the surface of the substrate 1 by sputtering Cu. This conductive film is patterned into a prescribed shape by a photoresist process, and a lower magnetic pole 2 is made of a magnetic material at the part of the hole 10. Thus the part 8 is formed at the same level as the bottom surface of the substrate 1. As a result, the magnetic flux 9 can be applied by 100% regardless of the thickness of the substrate 1.

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